	Application No.	Applicant(s)
Notice of Allowability	09/504,005	BOUTROS ET AL.
	Examiner	Art Unit
	Paula W. Klimach	2135
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>08/31/06</u> .		
2. The allowed claim(s) is/are <u>27-47</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the priority documents	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application.  hitted. Note the attached EXAMINER es reason(s) why the oath or declara- st be submitted.	national stage application from the complying with the requirements 'S AMENDMENT or NOTICE OF ation is deficient.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 7. Examiner's Amenda 8. Examiner's Statema 9. Other	(PTO-413), te

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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William P. Wilbar on 10/26/06.

The application has been amended as follows:

Replace claim 27 with the claim below:

- 27. A firewall device for inspecting packets transmitted over a network comprising:
- a) a firewall core connected to each of a plurality of communication interfaces and executing at least one inspection module wherein each at least one inspection module is software code configured to carry out an operation of providing protocol information for a particular protocol to said firewall core; and
- b) a new inspection module inserted into an operating memory of said firewall core during operation of said firewall core wherein said new inspection module is software code configured to carry out an operation of providing protocol inspection for a new particular protocol to said firewall core wherein said new particular protocol is different from each said particular protocol provided by each said at least one inspection module and wherein each said at least one inspection module are each further configured to indicate to said firewall core which protocol for data packets said inspection module is configured to provide inspection.

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30. Cancel

Replace claim 32 with the claim below:

32. A firewall core in a firewall system that inspects data packets transmitted over a network comprising:

a communication unit where said communication unit is operatively coupled to each one of a plurality of communication interfaces connected to said network;

a set of callback functions, retrieved from each of at least one inspection modules loaded into a memory of said firewall core, each of said set of callback functions provide communication between said firewall core and one of said at least one inspection modules and wherein each said at least one inspection module is software code configured to carry out the operation of providing protocol information and to inspect data packets of a particular protocol;

and wherein said firewall core monitors said memory to determine when a new inspection module is loaded into said memory wherein said in new inspection module is inserted into an operating memory of said firewall core during operation of said firewall core wherein said new inspection module is software code configured to carry out an operation of providing protocol inspection for a new particular protocol to said firewall core wherein said new particular protocol is different from each said particular protocol provided by each said at least one inspection module and wherein each said at least one inspection module and new inspection module are each further configured to indicate to said firewall core which protocol for data packets said inspection module is configured to provide inspection.

Replace claim 36 with the claim below:

36. An inspection module in a memory of a firewall device comprising software code that inspects packets transmitted over a network in a particular protocol, said inspection module comprising:

an inspection unit configured to inspect and authorize data packets formatted in a new particular protocol wherein said new particular protocol is different from each said particular protocol provided by other inspection modules in said memory;

a function table including a set of callback functions wherein said set if callback functions provides communication between said firewall core and said inspection module; and

wherein said inspection module is loaded into said memory monitored by said firewall core during operation of said firewall device and indicates to said firewall core said new particular protocol for data packets said inspection module is configured to provide inspection.

Replace claim 39 with the claim below:

39. A method for providing an inspection module for inspecting data packets of a particular protocol to a firewall system during runtime comprising:

loading a new inspection module into a memory monitored by a firewall core during operation of said firewall system wherein said inspection module comprises software code for an application providing inspections of packets in a new particular protocol wherein said new particular protocol is different from each said particular protocol provided by other inspection modules in said memory;

communicating said set of callback functions from said inspection module to said firewall core;

indicating to said firewall core which protocol for data packets said inspection module is configured to provide inspection.

Replace claim 43 with the claim below:

43. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for adding protocol knowledge to a firewall system during runtime comprising, said firewall system including a firewall core, said method comprising:

loading a new inspection module into a memory monitored by said firewall core during operation of said firewall system wherein said inspection module comprises software code executable to inspect a data packet of a new particular protocol wherein said new particular protocol is different from each said particular protocol provided by other inspection modules in said memory and indicates to said firewall core said new particular protocol for data packets said inspection module is configured to provide inspection notifying the firewall core said inspection module is loaded into said memory responsive to said loading;

and communicating a set of callback functions from said inspection module to said firewall core.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W. Klimach whose telephone number is (571) 272-3854. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PWK Monday, October 30, 2006

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100